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Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				**Application Number**	10/611,671
				Filing Date	07/02/2003
				First Named Inventor	Tod R. SMEAL
				Group Art Unit	1642
(use as many sheets as necessary)				Examiner Name	Unassigned
Sheet	1	of	3	Attorney Docket Number	034536-0407

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[6]
XZ	A1	ABO et al., "PAK4, a novel effector for Cdc42Hs, is implicated in the reorganization of the actin cytoskeleton and in the formation of filopodia," The EMBO Journal, 1998, pp. 6527-6540, Vol. 17, No. 22, Oxford University Press	
XZ	A2	CALLOW et al., "Requirement for PAK4 in the Anchorage-independent Growth of Human Cancer Cell Lines," The Journal of Biological Chemistry, January 4, 2002, pp. 550-558, Vol. 277, No. 1, The American Society for Biochemistry and Molecular Biology, Inc., USA	
XZ	A3	CHAN et al., "Expression cDNA cloning of a novel oncogene with sequence similarity to regulators of small GTP-binding proteins," Oncogene, 1994, pp. 1057-1063, Vol. 9, Macmillan Press Ltd.	
	A4	CRAVCHIK et al., "A novel strategy for the immunological tagging of cDNA constructs," Gene, 1993, pp. 139-143, Vol. 137, Elsevier Science Publishers B.V.	
	A5	DAN et al., "Cytoskeletal Changes Regulated by the PAK4 Serine/Threonine Kinase Are Mediated by LIM Kinase 1 and Cofilin," The Journal of Biological Chemistry, August 24, 2001, pp. 32115-32121, Vol. 276, No. 34, The American Society for Biochemistry and Molecular Biology, Inc., USA	
	A6	DAN et al., "PAK5, a New Brain-Specific Kinase, Promotes Neurite Outgrowth in N1E-115 Cells," Molecular and Cellular Biology, January 2002, pp. 567-577, Vol. 22, No. 2, American Society for Microbiology	
	A7	DEO et al., "Green Fluorescent Protein Mutant as Label in Homogeneous Assays for Biomolecules," Analytical Biochemistry, 2001, pp. 52-59, Vol. 289, Academic Press	
	A8	GAUTHIER-ROUVIÈRE et al., "*ras*-induced c-*fos* expression and proliferation in living rat fibroblasts involves C-kinase activation and the serum response element pathway," The EMBO Journal, 1990, pp. 171-180, Vol. 9, No. 1, Oxford University Press	
	A9	GNESUTTA et al., "The Serine/Threonine Kinase PAK4 Prevents Caspase Activation and Protects Cells from Apoptosis," The Journal of Biological Chemistry, April 27, 2001, pp. 14414-14419, Vol. 276, No. 17, The American Society for Biochemistry and Molecular Biology, Inc., USA	
	A10	HASHIMURA et al., "Production of Rabbit Antibody Specific for Amino-Terminal Residues of Cholecystokinin Octapeptide (CCK-8) by Selective Suppression of Cross-Reactive Antibody Response," Journal of Immunological Methods, 1982, pp. 375-387, Vol. 55, Elsevier Biomedical Press	
	A11	KRENDEL et al., "Nucleotide exchange factor GEF-H1 mediates cross-talk between microtubules and the actin cytoskeleton," Nature Cell Biology, April 2002, pp. 294-301, Vol. 4, No. 4	

Examiner Signature		Date Considered	10/20/06

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XZ	A12	MUSACCHIO et al., "The PH domain: a common piece in the structural patchwork of signaling proteins," Trends in Biochemical Sciences, September 1993, pp. 343-348, Vol. 18, The International Union of Biochemistry and Molecular Biology and Elsevier Trends Journals	
	A13	NIMS et al., "Production of Hyperimmune Serum With Mature Rabbits," Laboratory Animal Science, 1973, pp. 391-396, Vol. 23, No. 3, American Association for Laboratory Animal Science, USA	
	A14	NOBES et al., "Rho, rac and cdc42 GTPases: regulators of actin structures, cell adhesion and motility," Biochemical Society Transactions, 654th Meeting Leicester, August 1995, pp. 456-459, Vol. 23, No. 3	
	A15	O'SHEA et al., "The ins and outs of cell-polarity decisions," Nature Cell Biology, March 2000, pp. E39-E41, Vol. 2, No. 3	
	A16	PANDEY et al., "Cloning and characterization of PAK 5, a novel member of mammalian p21-activated kinase-II subfamily that is predominantly expressed in brain," Oncogene, 2002, pp. 3939-3948, Vol. 21, Nature Publishing Group	
	A17	QU et al., "Activated PAK4 Regulates Cell Adhesion and Anchorage-Independent Growth," Molecular and Cellular Biology, May 2001, pp. 3523-3533, Vol. 21, No. 10, American Society for Microbiology	
	A18	REDDY et al., "Isolation and Characterization of Complementary DNA to Proliferating Cell Nucleolar Antigen P40," Cancer Research, April 1, 1989, pp. 1763-1767, Vol. 49, No. 7, American Association for Cancer Research	
	A19	REN et al., "Cloning and Characterization of GEF-H1, a Microtubule-associated Guanine Nucleotide Exchange Factor for Rac and Tho GTPases," The Journal of Biological Chemistry, December 25, 1998, pp. 34954-34960, Vol. 273, No. 52, The American Society for Biochemistry and Molecular Biology, Inc.	
	A20	SATO et al., "Fluorescent indicators for imaging protein phosphorylation in single living cells," Nature Biotechnology, March 2002, pp. 287-294, Vol. 20, No. 3	
	A21	SHAMAH et al., "EphA Receptors Regulate Growth Cone Dynamics through the Novel Guanine Nucleotide Exchange Factor Ephexin," Cell, April 20, 2001, pp. 233-244, Vol. 105, Cell Press	
	A22	TAYLOR et al., "Nonradioactive Determination of Ras-GTP levels Using Activated Ras Interaction Assay," Methods in Enzymology, 2001, pp. 333-342, Vol. 333, Academic Press	
	A23	YANG et al., "Androgen Receptor Specifically Interacts with a Novel p21-activated Kinase, PAK6," The Journal of Biological Chemistry, May 4, 2001, pp. 15345-15353, Vol. 276, No. 18, The American Society for Biochemistry and Molecular Biology, Inc., USA	

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XZ	A24	ZOZULYA et al., "Mapping signal transduction pathways by phage display," Nature Biotechnology, December 1999, pp. 1193-1198, Vol. 17, Nature America Inc.	

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XZ	B1	5,863,532	A	TRAUGH et al.	01-26-1999	

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XZ	B2	REN et al., "Cloning and characterization of GEF-H1, a microtubule-associated guanine nucleotide exchange for Rac and Rho GTPases," J. Biol. Chem., 25 December 1998, pp. 34954-34960, Vol. 273, No. 5	
XZ	B3	WHITEHEAD et al., "Expression cloning of lfc, a novel oncogene with structural similarities to guanine nucleotide exchange factors and to the regulatory region of protein kinase C," J. Biol. Chem., 4 August 1995, pp. 18388-18395, Vol. 275, No. 31	

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